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मानक

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IS 3645 (1992): Surgical instruments - Artery forceps
Spencer Wells pattern - Size, shape and dimensions [MHD 1:
Surgical Instruments]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

शल्यक उपकरण — रक्त शिराओं की सपैंसर वैंल्ज नमूने की
चिमटियाँ — आकार, आकृति एवं आयाम

(पहला पुनरीक्षण)

Indian Standard

SURGICAL INSTRUMENTS — ARTERY
FORCEPS, SPENCER WELL'S PATTERN —
SIZES, SHAPE AND DIMENSIONS

(*First Revision*)

UDC 615.472.4 : 616.13

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Surgical Instruments Sectional Committee, MHD 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Surgical Instruments Sectional Committee had been approved by the Medical Equipment and Hospital Planning Division Council.

This standard was first published in 1966. It has been revised so as to retain the requirements in respect of sizes, shape and dimensions only, as the other specification aspects for all types of artery forceps are covered in IS 3642 (Part 1) : 1990 'Surgical instrument — Specification Part 1 : Non-cutting, articulated instruments (*second revision*)' which would serve as a horizontal standard for artery forceps. Accordingly, this standard takes the form of a vertical standard and is intended to be used in conjunction with IS 3642 (Part 1) : 1990.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the results of a test, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of specified value in this standard.

Indian Standard

SURGICAL INSTRUMENTS — ARTERY FORCEPS, SPENCER WELL'S PATTERN — SIZES, SHAPE AND DIMENSIONS

(First Revision)

1 SCOPE

1.1 This Indian Standard specifies the sizes, shape and dimensions for Spencer Wells pattern artery forceps.

2 REFERENCES

2.1 The Indian Standard IS 3642 (Part 1) : 1990 'Surgical instruments — Specification :

Part 1 Non-cutting, articulated instruments (*second revision*)' forms a necessary adjunct to this standard.

3 SIZES, SHAPE AND DIMENSIONS

3.1 The sizes, shape and dimensions of the Spencer Well's Pattern artery forceps shall be as shown in Table 1.

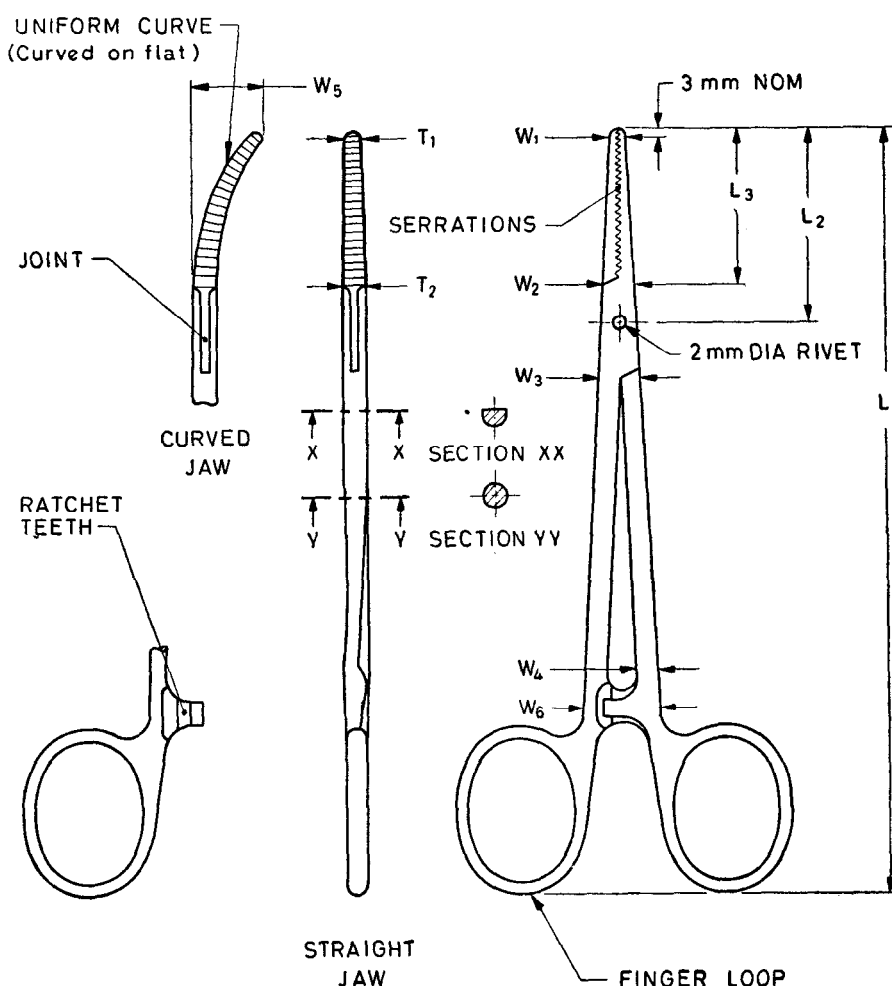


FIG. 1 ARTERY FORCEPS, SPENCER WELL'S PATTERN

3.2 Joint

The joint of the forceps shall be box type conforming to 13.2.2 of IS 3642 (Part 1) : 1990.

3.3 Serrations

The serrations shall be transverse type, conforming to Section 2 of IS 3642 (Part 1) : 1990.

3.4 Ratchet Teeth

3.4.1 The Ratchet teeth shall be of combination 1 in 2 or 2 in 2 and shall conform to the

requirements of Section 4 of IS 3642 (Part 1) : 1990.

3.4.2 The load required to close the forceps at the first ratchet engagement [see 14.2 of IS 3642 (Part 1) : 1990] shall be between 13 N to 20 N.

3.5 Finger Loops

The finger loops provided shall be of sizes according to Table 1 and shall conform to Section 6 of IS 3642 (Part 1) : 1990.

Table 1 Dimensions of Forceps
(*Clauses 3.1 and 3.5, and Fig. 1*)

All dimensions in millimetres.

Dimensions	Sizes				Tolerances
	130	150	180	200	
(1)	(2)	(3)	(4)	(5)	(6)
L_1	130	150	180	200	± 3
L_2	35	40	45	50	± 3
L_3	25	30	35	40	± 3
W_1	3	3	3.5	3.5	± 0.5
W_2	7	7	8.5	8.5	± 1
W_3	8.5	8.5	10	10	± 1
W_4	3	3	3.5	4	± 0.5
W_5	11.0	13.0	14.5	16.5	± 1
W_6	11.0	13.0	14.5	16.5	± 1
T_1	2.5	2.5	3	3	± 0.5
T_2	5	5	5.5	5.5	± 0.5
Finger loop	No. 2	No. 2	No. 3	No. 3	

NOTES

1 The dimensions are given with forceps completely closed.

2 The dimension W_6 is to be measured at the central line of the ratchet.

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